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This curriculum is made using L^AT_EX 2_ε, source files are free downloadable from my web site.

PERSONAL INFORMATIONS

- Born in Catania (Italy) - 29 September 1981;
- Italian Nationality;
- Civil State: unmarried;

I'm an italian Unix System Administrator. I'm currently located in Dublin, Ireland. I was born in Catania (Sicily).

I'm very versatile at work, with good ability to adjust myself to new surrounding working environments and teams.

I have got an extensive knowledge of GNU/Linux during my home experience since 2001. In that year I've started collaborating with my hometown LUG (Linux User Group) and also with the Freaknet.org/Dyne.org organizations. I consider myself a "free software evangelist" for my contributions to those organizations.

I started working as a LAMP developer for an university department and small web agencies. I've been working in that position until 2003/2004. In 2004 I moved to a local ISP working as UNIX sysadmin. I was responsible for maintaining systems (DNS, Mail Server, Web Server, network equipments, etc) and for internal/external support. In 2005 I moved to a consultant company with offices based in Catania, Rome and Milan, working on projects together with companies like Nokia Italy, Vodafone Italy, ATAC Roma, etc. I've also joined a project regarding an embedded system based on Linux in which I did some programming in kernel space. In early 2008 I've moved to Dublin, Ireland, and I started working with NewBay Software Ltd as an UNIX Operations Engineer working in the Deployment Team.

EDUCATION

- From 1999 to 2005 at "Università degli Studi di Catania, Engineering Faculty - Computer Science"
- From 1994 to 1999 I.T.I.S. "G. Marconi" High School (Catania) - Computer Science

Although I studied Computer Science at school and university I built my own knowledge as an autodidact.

KNOWLEDGE

Since 1996 I've been trying to improve my knowledge by myself, for passion, work and study. Since 2000 I've been starting to use only Unix-like operating systems (such as GNU/Linux and *BSD) at work and home. These are my natural working environments.

OPERATING SYSTEMS

- **OpenBSD:** to make firewall, router, NIDS, VPN gateway;
- **FreeBSD:** to make web services, mail, dns, etc, that need strong security, performance and availability capabilities;
- **NetBSD:** to make services on architectures different from x86/ppc like *ARM, *MIPS, Amiga, PPC, HP*, *68k, etc (especially embedded systems);
- **GNU/Linux (Gentoo, Debian, Slackware):** to make desktop, development, embedded systems and cluster servers. I don't like RPM-bases distribution like RedHat/Suse/Mandrake/Mandriva etc., but I can work with them.

- **Solaris 9/10 - both x86 and SPARC:** IPMP, software mirroring, zones/containers, ZFS filesystem, hardening with JASS.
- other UNIX closed OS's: **HP-UX, AIX, etc....**: i'm not really experienced with those OS's. but i'm very keen to have the opportunity to work on working on them.
- **CISCO IOS:** base/good knowledge of switches configuration: VLAN's, trunking, Spanning tree, backup.
- Microsoft Windows: 2000 Server and 2003 Server;

PROGRAMMING

- **Languages:** C/C++ in UNIX environment (networking programming using socket, multithreading, GUI with GTK+, Linux kernel-space programming, especially module programming, database interconnetion with Mysql API or unixODBC), minimal knowledge of assembly 8086;
- **Markup Languages:** **HTML 4.01, XHTML, CSS 2.0** (excellent knowledge of W3C standards and accessibility of web pages), **L^AT_EX 2_ε** (a high-quality typesetting system designed for the production of technical and scientific documentation), **DocBook/SGML** (markup language based on SGML designed to produce technical documentations, howtos, etc);
- **Scripting Languages:** **Shell script programming (bash,ksh,zsh), Perl, PHP** (excellent), **Tcl/Tk**, javascript (good), Python (minimal);
- **Database:** excellent knowledge of SQL on**MySQL and PostgreSQL**, good knowledgement of Microsoft SQL Server and Oracle in UNIX (Solaris and Linux);
- **Development environment and IDE:** vi/vim, make, autoconf, automake, autoheader, ant;
- **Other:** excellent knowledge of collaboration systems tools like **CVS, BugZilla, Maven** (as administrator or user);

SOFTWARE

Wide knowledge of networking software:

- Web Server **Apache 1.x/2.x** (with the main module), IIS (good knowledge);
- **Tomcat** Application Server with Apache Web Server integration;
- **JBoss** Application Server;
- **OpenSSH:** tunneling, X11 Forwarding, DynamicForward;
- Mail Server **Qmail** (antispam bogofilter, spamassassin, razor/pyzor/RBL filters, clamav and f-prot antivirus, greylisting, blacklist support, virtual domain with vpopmail+mysql or OpenLDAP, autoresponders, robots, mailing lists **ezmlm**), **Postfix** (antivirus/antispam with clamav, spamassassin, razor/pyzor, RBL, greylisting, mailing lists **mailman**, LDAP authentication);
- **CourierIMAP**;
- **ISC Bind (version 9), ENUM (RFC 3761), Dynamic Update (RFC 2136)**;
- **FTP (proftpd, pure-ftpd)**;
- **Samba:** Fileserver and PDC (Primary Domain Controller), NT/Active Directory;
- **CVS**, strong configuration hardening (SSH authentication, RSA certificates, cvs over chroot);
- **Iptables (Linux) and Packet Filter (OpenBSD: pfsync, carp, sasync, ifstated)**, with high availability;
- **MRTG and RRDTool**;
- **Nagios:** network monitoring tool;
- **Hylafax** (faxserver, mail2fax/fax2mail gateway);
- **CUPS e LPD** (print servers);
- **OpenLDAP** (with PAM configuration for UNIX);
- **XWindow**);
- **Heartbeat, DRBD, OpenMosix** for clustering and High Availability (HA), High Performance Computing (HPC), Load Balancing.
- **Maven**;
- **Tripwire** (a tool for file systems integrity check and auditing on UNIX);
- **Bacula** a network based backup and disaster recovery tool for unix/windows, with tape support.
- **OpenVPN** a portable userspace VPN implementation based on OpenSSL;
- **Asterisk** SIP/RTP or PSTN/ISDN, voicemail, voice prompt with festival, dialplan programming, AGI extensions programming, etc.
- **JASS** a security hardening/audit tool for Solaris systems
- **SwiftMQ** JMS High Availability for Java

SENIOR SYSTEMS ADMINISTRATOR AND IT CONSULTANT

Strong understanding of:

- ISO/OSI stack and **TCP/IP**;
- PKI Infrastructures;
- Switched Ethernet Networks;
- Network security troubleshooting, **UNIX hacking, scanning, hardening**, firewall configuration;
- **nmap, ettercap, ethereal, wireshark, hping, dsniff, ksismet, etc.** ;
- Backup policies;
- Configuration, tuning, of embedded systems based on GNU/Linux;
- **VPN gw2gw or client2gateway** using Cisco closed solutions, or free solutions such as OpenBSD isakmpd, Frees/Wan, Racoon, OpenVPN.
- Solaris software package creation (with check/pre/post install and remove routines)

WORKING EXPERIENCES

- **I've moved to Ireland in February 2008 where I've joined NewBay Software Ltd (<http://www.newbay.com>) to work as an UNIX Operations Engineer - Deployment Team**

NewBay is an Irish company specialized in delivering digital lifestyle solutions to operators, enabling subscribers to create, store, view and share user generated content.

I'm currently a member of the the Operation Group, Deployment Team. We're responsible for deploying, configuring and support systems, products and applications, for both internal and external projects or customers.

I'm currently working for a T-Mobile project called MyFaves, which is a customization of some NewBay's products. This system serves T-mobile some european NATCO's like Germany, Uk, Netherlands, Czech Republic and Austria.

We are currently dealing with the migration from the old release and the new one in test/production environment working directly in the customer's server farm.

Some technologies/products used are:

- Solaris 10 (Zones/Containers/ZFS/IPMP) and/or Red Hat GNU/Linux
- Java
- Tomcat
- SwiftMQ HA
- Nagios
- MySQL and Oracle RAC
- BigIP F5 LTM/GTM
- Cisco

- **From September 2005 to January 2008 at SPMC Srl (<http://www.spmc.mobi>) as Unix System and Network Administrator, IT Consultant.** I was responsible of keeping up and running the whole company's network infrastructure located in 3 different cities: Catania, Rome and Milan.

- **On June 2007 I wrote, in C language, a Linux Kernel Module** for an embedded system based on a Toradex Colibri board (CPU Intel ARM XScale PXA270). This module controls some status leds and receive the interrupt generated when the user presses some command switches, sending commands to an userspace program wrote in C. The source is available at:
http://www.pallotron.net/software/colibri-toradex-gpio_linux2.4.tar.gz
- **On June 2006 I was involved in Teleca Solutions Italia SpA** as a consultant into a FastWeb SpA project called "Accesso limitato ai CPE da parte dei Clienti". I wrote a lot of Perl scripting procedures to sync Oracle database to MySQL databases used as back-end by RADIUS authentication servers.
- **On January 2006 I was involed into a LogicaCMG (<http://www.logicacmq.com>) team in Vodafone Italia (Milan).** I have customized a lot of korn shell backup scripting procedure on Compaq Tru64 UNIX V5.1B, Alpha architecture.
- **I was involved into Vodafone's PoC Web Gui project (from September 2005 to January 2006).** PoCWebGui is a JSP Web GUI linked into the Vodafone's www.190.it portal, the GUI act as a front-end management tool for the Pust To Talk service. I have had duties related to system administration support, installation and configuration tasks on Solaris 9 operating system, CVS module administration, shell scripting programming, installation and configuration documentation writing.

- **Since July 2005, I've started a collaboration with New COM SRL (<http://www.newcomnp.it>).** I did a lot of activities:
 - **Linux Embedded Engineer:** I created and actually I maintain an embedded operating system based on Gentoo Linux, used on embedded computers (pc104 with vortex86 cpu). This system has the following characteristics:
 - * all the system compiled from scratch;
 - * system compiled over uClibc library, much smaller than glibc. (a version compiled over glibc is available too);
 - * Xorg server, touchscreen, virtual on screen keyboard;
 - * optimized disk space : about 70 mb (with all the components);
 - * read only root filesystem;
 - * busybox that combines tiny versions of many common UNIX utilities into a single small executable;
 - * serial port for management;
 - * sshd and vnc servers;

This system was used for example to control PLCs attached to industrial machines.
 - **UNIX Software Engineer:** I wrote a C/unixODBC daemon that reads e processes informations coming from a PLC through rs232 serial port. This daemon send allarms and write data on a Microsoft SQL Server using the unixODBC libraries. The project is called plcfetch, the source is available at: <http://cvs.hinezumilabs.org/viewcvs/plcfetch/>
- **Since 2001 I'm involved in Freaknet.org and Dyne.org communities.** I'm responsible of keeping up and running our network infrastructure; I do workshops in association with other entities like the Catania GNU/Linux User Group; I was also a teacher in our free software course (have a look in the section below on this cv). I gave my contribute into this free software projects:
 - **MuSE: Multiple Streaming Engine (<http://muse.dyne.org>):** I wrote the decoder channel for wav audio files (C++ in UNIX environment);
 - **TBT: Time Based Text: (<http://tbt.dyne.org>)** I wrote some lines into the main program (C/C++ UNIX environment), a PHP Class used to read files in .tbt format, a web-application, commissioned by Impakt.nl (wrote in PHP / Javascript / Ajax and available at <http://tbt.dyne.org/impakt/>), it is used to public .tbt files on internet.
- **From December 2004 to September 2005 at ComputerLine SRL (<http://www.computerlinesrl.it>) as a windows/unix sysadmin .** I kept running internet services (DNS, Email, WEB, FTP, RDBMS, etc), I did troubleshooting and techincal support, and issues regarding TLD domains registration.
- **From March 2004 to December 2004 at Uzed@ Web Agency (<http://www.uzeda.com>),** as a Php/MySQL devlepoer and Linux sysadmin
- **From 2001 to 2002 at “Dipartimento di Informatica e Telecomunicazioni della Università degli Studi di Catania” (<http://www.diit.unict.it/>)** as an e-learning expert.
- **From 2000 to 2001 at Infozoo Project & Co. software house working as developer.** I wrote software modules that reads information from industrial weighing systems.
- **Other self-employed activities:** web site development, server installation and configuration, customization of open-source projects, techincal troubleshooting on running systems. Some projects:
 - <http://www.streamtime.org>
 - <http://www.enfugen.net>

LANGUAGES

My natural born language is Italian, but I have a good ability to write and speak fluent english (especially the techincal one). I've passed a course made by “The Method” English School in Catania, with the B2 Level (Common European Framework of Reference for Languages).

OTHER EXPERIENCES

CONFERENCES, WORKSHOPS, SPEECHS

These are some workshops, speechs, conferences I did as a speaker:

- **19 November 2004 - Spam: è ora di difendersi! - Implementazione di servizi anti-spam in Qmail** - at Smau Sicilia 2004 (Le Ciminiere - Catania) <http://www.smausicilia.it> - A workshop regarding spam fighting, with an example configuration of Qmail with spamassassin;

- **8 May 2004** - *FaxMachine: tecniche a supporto del direct marketing* - at Webb.it 2004 (Padova) <http://www.webb.it> - A workshop regarding a fax server software called Hylafax. The workshop treated the installation on a unix server with fax2email and email2fax capabilities;
- **6 May 2004** - *LDAP per Autenticazione Samba/PAM* - at Webb.it 2004 (Padova) <http://www.webb.it> - Workshop regarding using OpenLDAP as an authentication backend for samba NT/AD domains using unix machines.
- **16 February 2004** - **Workshop Linux Kernel [Ma—Hac]king** - at Centro Culturale Zo' (v.le Africa - Catania) where I did a practical workshop regarding how to compile the Linux 2.6 Kernel. I did this workshop also at the italian hackermeeting on 2004. (<http://www.hackmeeting.org>);
- **23 November 2002** - **LinuxDay 2002** - “Aula Magna del Dipartimento di Matematica e Informatica dell’Università di Catania” a speech regarding the use of free software inside public schools.

COURSES

Courses I did as a teacher:

- **On 2006 I did a UNIX base course inside my company**
- **On 2003/2004 course code PON 1-3-2003-577** “*Protocolli di rete e servizi UNIX*”: a course for high school teachers at “Liceo Scientifico Majorana S.G. La Punta (in Catania)”;
- **On 2003 course code PON 1-3-2003-561** “*Introduzione allo UNIX nella scuola*” : a course for high school teachers at “Liceo Scientifico Majorana S.G. La Punta (in Catania)”;
- **On 2003 Course for UNIX sysadmins at FreakNet MediaLab Catania** (<http://www.freaknet.org>);
- **On 2002 UNIX base course at FreakNet MediaLab Catania** (<http://www.freaknet.org>);

PUBLICATIONS

Articles on newspapers e magazines:

- **DEV - no. 168 April 2005:** *Compilare il kernel Linux: una guida pratica*: i wrote an article regarding how to compile the Linux kernel. DEV is an italian magazine.

PROJECTS I'M INVOLVED IN:

- **Freaknet (<http://www.freaknet.org>):** the oldest italian hacklab. Born in 1998 as a location for our “FREAKNET BBS” Network, active since the end of 1994, it is a free open lab, where people can work with computers and connect to the internet for free. The basic idea was to offer computers and network for people that CAN'T have one: students, viados, immigrants, travellers, etc. Free and Open Source software used. Most of the computers are recovered from trash or were donated. Many services offered.
- **Dyne.org (<http://dyne.org>):** Since 2000 the dyne.org foundation is a free software foundry for digital artisans. Dyne produce open source tools and ideas for media arts, sharing a grassroots access to technology, education and freedom of creation.

HOBBIES

- **Computer Science and free software:** I use to write and mantain systems for hobbies and also for work, I have got an home network with a lot of servers used to learn new technologies. Often I use the world wide web and its infrastructure to learn as much as I can, I'm always looking for free text, articles, books, whitepapers to keep my skills always updated.
- **Rugby:** Since 12 years old I've been playing with Amatori Rugby Catania (<http://www.amatorirugbycatania.it>), I played on first division italian Under 21 championship (98/99, 99/2000), reaching the playoff. I played for the Senior team taking Amatori Catania from third to second division, and then from Second division to the first division (Top Ten). I played also for the university team (Cus Catania). Since 2004/2005 I have been playing for S. Gregorio Rugby <http://www.sangregoriorugby.it>) on third division. The club has reached the “Serie A” (second division) in season 2007/08.